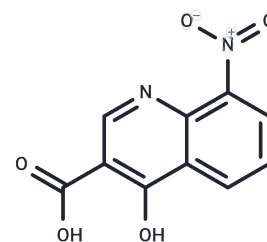


DNA2 inhibitor C5

Chemical Properties

CAS No. : 35973-25-2
 Formula: C₁₀H₆N₂O₅
 Molecular Weight: 234.16
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	DNA2 inhibitor C5 is a promising lead compound to develop sensitizers for cancer chemotherapeutics that cause replication stress and it also is a competitive and specific inhibitor of DNA2 nuclease activity (IC ₅₀ : 20 μM). DNA2 inhibitor C5 inhibits nuclease, DNA dependent ATPase, helicase, and DNA binding activities of DNA2.
Targets(IC ₅₀)	Others,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 20.83 mg/mL (88.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.08 mg/mL (8.88 mM),Solution. 10% DMSO+90% Saline: < 2.08 mg/mL (8.88 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2706 mL	21.3529 mL	42.7058 mL
5 mM	0.8541 mL	4.2706 mL	8.5412 mL
10 mM	0.4271 mL	2.1353 mL	4.2706 mL
50 mM	0.0854 mL	0.4271 mL	0.8541 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Binghui Shen, et al. Dna2 inhibitors for cancer treatment. US20170226063A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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